FLAT OR ELONGATED PARTICLES IN COARSE AGGREGATE

North Dakota Department of Transportation, Materials & Research SFN 51700 (Rev. 01-2006)

Project					PCN			
District					Engineer			
Contractor					Submitted By			
Date Sampled					Material			
Specification					Size or Class			
Sample From					Field Sample Number			
Pit Loc	ation							
Sand					Gravel			
Aggregate					Pit Owner			
Total Weight of Sample (B) (gram) including -9.5 r						3/8") material		
Sieve Size		Weight Retained	Percent Retained	Weight (~100 particles)		Weight Flat/Elongated	Percent Flat/Elongated*	(G) = A x F
Mm	ln.	(A) (gram)	(C) = $\frac{A}{B}$ x 100	(D) (gram)		(E) (gram)	(F) = $\frac{E}{D}$ x 100	
37.5	1 1/2							
25.0	1							
19.0	3/4							
12.5	1/2							
9.5	3/8							
(H) = Sum of (A)						I = Sum	of (G)	
						*Weighted Average = H		

If the sieve has < 10% retained, do not test it. Use the value for the next size larger or smaller that has ³ 10% retained. If both a larger and smaller size have ³ 10% retained, use the average.

ASTM D 4791 Tested by	
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^{*}Report to nearest whole number